CLAIMS

- A vaporization method, wherein a raw material solution is brought into contact with a heated carrier gas and carried to a subsequent step.
- 2. The vaporization method according to claim 1, wherein a temperature of the heated carrier gas is 100 to  $300^{\circ}\text{C}$ .
- 3. The vaporization method according to claim 2, wherein a temperature of the heated carrier gas is 200 to  $250^{\circ}\text{C}$ .
- 4. The vaporization method according to one of claims 1 to 3, wherein the raw material solution is obtained by solving an organic metal compound in a solvent.
- 5. The vaporization method according to one of claims 1 to 4, wherein the carrier gas is an inert gas.
- 6. The vaporization method according to one of claims 1 to 4, wherein the carrier gas is a gas which contains an oxidizing gas in an inert gas.
- 7. The vaporization method according to one of claims 1 to 6, wherein a speed of the carrier gas is set to a subsonic speed to a sonic speed to introduce the raw material solution.
- 8. The vaporization method according to one of claims 1 to 7, wherein the raw material solution is introduced into a passage of the carrier gas through a hole having a diameter of 0.05 mm to 0.5 mm.
  - 9. The vaporization method according to one of

claims 1 to 8, wherein the solvent of the raw material solution is contained in the carrier gas before introducing the raw material solution.

- 10. The vaporization method according to one of claims 1 to 9, wherein a raw material concentration in the raw material solution is 0.2 mol/L or below.
- 11. A vaporizer having: a vaporization chamber; a carrier gas passage communicating with the vaporization chamber; a raw material solution lead-in port through which the raw material solution is led into the passage; and means for heating the carrier gas.